

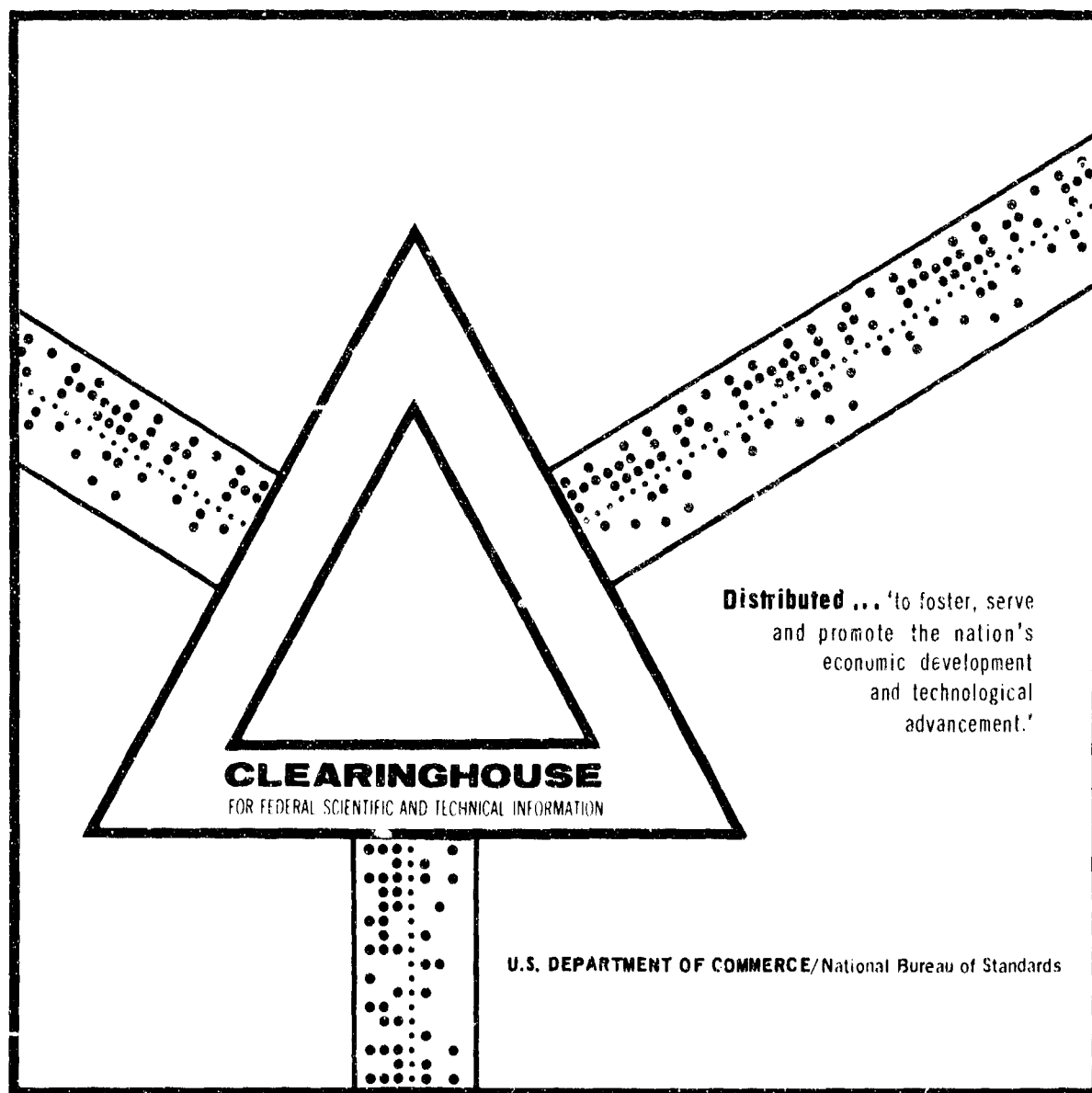
AD 699 387

INFORMATION RETRIEVAL SYSTEM, VOLUME I

Jack D. Mahle, Jr., et al

Wolf Research and Development Corporation  
Riverdale, Maryland

28 November 1969



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INFORMATION  
RETRIEVAL  
SYSTEM

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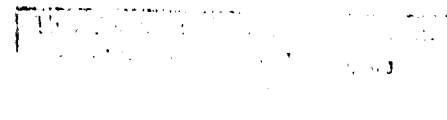
VAL I

INFORMATION  
RETRIEVAL  
SYSTEM

Prepared for  
Data Systems Division  
Fort Detrick  
Frederick, Maryland

Prepared by  
Wolf Research and Development Corporation  
6801 Kenilworth Avenue  
Riverdale, Maryland

28 November 1969



SYSTEM ID: IRS

TITLE: INFORMATION RETRIEVAL SYSTEM

PURPOSE OF THE SYSTEM: The purpose of the Information Retrieval System is to store information about the scientific and technical reports and documents of the Fort Detrick Technical Library and to retrieve this information using "searches" and special print programs.

REQUESTED BY:

ANALYST: Jack D. Mahle, Jr.

PROGRAMMERS: Jack D. Mahle, Jr. and  
Sally Lukasiewicz

DOCUMENTED BY: Jack D. Mahle, Jr.

DATE LAST REVISED:

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS: Paper Tape Reader  
Two Magnetic Tape Transports  
Four Disk Pack Drives  
Card Reader  
Line Printer

OBJECT TIME STORAGE  
REQUIREMENTS-

Main Memory:  
Secondary:

SECURITY CLASSIFICATION-

Program:  
Data:

REVIEWED BY:

APPROVED BY:

Chief, Systems Branch

Chief, Data Systems Division

## SYSTEM DESCRIPTION:

The Fort Detrick Information Retrieval System is a system of computer programs written in COROL to store and retrieve information about the scientific and technical reports and documents of the Fort Detrick Technical Library. The documents and reports have been abstracted and their subject matter indexed using descriptors.

This abstract, the subject matter descriptors, the document's title, the personal authors, the corporate authors, the document's series and contract numbers, any security classifications, and other pertinent information about each of the documents or reports make up the master record of the Information Retrieval System. The size of this record is up to 2300 characters, 980 of which are allotted to the abstract and 240 for up to 48 5-digit numeric descriptor codes to indicate the document's subject matter.

A thesaurus file of the 5-digit numeric descriptors and their equivalent English meanings is maintained for the system. It is needed so that the numeric code can be translated into English in the printing out of the system's information.

As a means of accessing the information of the master file an additional file is used. It is called a search or inverted file and is used in a subject matter search of the master file. While the records of the master file are arranged by accession number of the individual document and the subject matter of that document is indicated by one or more descriptor codes, the inverted file records are arranged by descriptor

code with the accession number of each master record indexed by that descriptor code. Thus each record of the inverted file contains one descriptor code and all of the accession numbers of each master record that contains that descriptor. These records are arranged numerically ascending by descriptor code.

This arrangement allows for quickly retrieving the accession numbers of the documents that contain information on a particular subject. For example: you want to know which documents contain information on microbiology...you know that the numeric descriptor equivalent to that English language descriptor is 01745....you go to record 1745 of the inverted file and you find the accession numbers 37734, 47630 and 21138. With the accession numbers of the documents that contain information on microbiology you then can access the master file using these accession numbers. As further example: You may wish to search the master file for the documents that contain information on both microbiology and viruses. To do this you would go the records in the inverted file for microbiology and viruses; e.g., records 01745 and 02733. You find document accession numbers 37734, 47630 and 21138 at the microbiology record and you find document accession numbers 27371, 37734, and 47630 at the viruses record. By comparing the accession numbers you know that documents 37734 and 47630 contain information on both microbiology and viruses.

With this ability to retrieve the accession number of documents on a particular subject you can also arrange your search criteria to exclude documents that contain certain subjects.

In addition to these logical "AND" and "NOT" searches you may also logically "OR" and "NOR" combine descriptors together in one search of the master file.

Other searches of the master file can be made by individual personal author, individual corporate author, individual series number, and individual contract number. These types of searches cannot be logically combined. You can only search for a single personal author, a single corporate author, a single series number, or a single contract number during one search of the file.



PROGRAM ID: IR01

TITLE: PTRDRTN - Paper Tape Read Program

PURPOSE OF PROGRAM: The purpose of this program is to read the 8-channel flexowriter paper tape containing all the input unit records for the system, convert those records into a CDC 3150 compatible code, and write them out on a magnetic tape and the printer.

ANALYST: Jack D. Mahle, Jr.

PROGRAMMER: Jack D. Mahle, Jr.

DOCUMENTED BY: Jack D. Mahle, Jr.

SOURCE LANGUAGE: COMPASS

COMPUTER: CDC 3150

REQUIRED COMPONENTS: Paper Tape Reader  
Line Printer  
Magnetic Tape Transport

OBJECTIVE TIME STORAGE  
REQUIREMENTS-

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

The flexowriter paper tape that is the input to this program is punched in an eight bit, upper and lower case character code. These characters are, of course, not the same as the CDC characters and must be translated to the CDC code character by character. As each character is checked it has to be remembered as to whether you are in upper case mode or lower case mode to determine the proper translation to give to the character.

After each character is checked and properly translated it is stored in an output area. When 135 characters are stored they are written out on a magnetic tape and on to the line printer.

PROGRAM ID:

IR02

TITLE:

ONTODISK

PURPOSE OF PROGRAM:

The purpose of this program is to edit the magnetic tape created in IR01. If the data is correct, properly formatted input records are written out onto disks to be input to IR03.

ANALYST:

Jack D. Mahle, Jr.

PROGRAMMER:

Jack D. Mahle, Jr.

DOCUMENTED BY:

Jack D. Mahle, Jr.

SOURCE LANGUAGE:

COBOL

COMPUTER:

CDC 3150

REQUIRED COMPONENTS:

2 Magnetic Tape Transports  
4 Disk Pack Drives  
Line Printer

OBJECT TIME STORAGE  
REQUIREMENTS-

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

ONTODISK is an editing and formatting program. The input to program is the magnetic tape created in IRO1 from the paper tape unit records. Each item of the unit record is preceded by a // and an item number from 01 to 92. //01 indicates a new unit record. //92 indicates an action code follows. If there is no //92 in the unit record, the action code is assumed to be ADD.

Each of the items are limited to a certain number of characters, so item length is one of the program checks. Certain items must be numeric so that is another check for some items. Missing items are blank filled.

When a //01 is encountered the previously edited items are written out onto three different disk files. The "Abstract" of the unit record is written out onto one file; the "Abbreviated Citation" portion is written out onto a third.

These three files will be input to IRO3. The format of the records of these three files is identical with the three records formats of the three files which make up the master file.

Action codes of ADD, REP (replace), and DEL (delete) are the standard action codes for the input records. Two additional action codes are allowed in ONTODISK. They are

CHG (change) and CHA (change accession number). CHG is used to indicate a partial input record where only certain items of an existing record are to be changed. CHA is used to indicate a change in accession number only.

When CHG is used the partial input record must be as follows: //01 (classification) //92CHG//02 (existing accession number of the unit record to be changed) followed by //, the item numbers of the items to be changed and the new information of that item. All items of a unit record may be changed this way.

When CHA is used the partial input record must be as follows: //01 (classification) //92CHA//02 (existing accession number) //02 (the new accession number).

The ABBREVIATED CITATION file, the DESCRIPTOR-REST OF RECORD file, and ABSTRACT file must be readied for input to this program because if CHA or CHG type records are input then the program retrieves these records from the disks and tape, puts in the new information and then writes these records out as REP type input records in the case of CHG or as ADD (with new accession number) and DEL (with old accession number) in the case of CHA.

PROGRAM ID:

IR03

TITLE:

FILE MAINTENANCE PROGRAM  
(IRS-FMP)

PURPOSE OF PROGRAM:

The purpose of this program is to provide the means each month of updating the master file of the system with new accessions. The master file, because of its size, is divided into three sections; the ABBREVIATED CITATION file, the DESCRIPTOR-REST OF RECORD file and the ABSTRACT file. In addition to the update of the master file, an inverted file of accession numbers by descriptor is maintained. A listing of the new accessions is produced.

REQUESTED BY:

ANALYST:

Jack D. Mahle, Jr.

PROGRAMMER:

Jack D. Mahle, Jr.

DOCUMENTED BY:

Jack D. Mahle, Jr.

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS: 2 Magnetic Tape Transports  
4 Disk Pack Drives  
Card Reader  
Line Printer

OBJECT TIME STORAGE  
REQUIREMENTS-

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

This program is the update program for all of the major files of the system, excepting the THESAURUS file which because of core limitations has its own update program. The files that are updated in this program are the master file, an inverted file, and a dictionary file. The master file, because of the number of records and the length of each record, must be divided into three separate files. The division of the master file is as follows: (1) the information necessary for the abbreviated citation listing of a search run and special listing runs of personal author, corporate author, contract number and series number, (2) the abstract and its classification, and (3) the numeric descriptors and the rest of the unit record. The first and the third portions are disk files, the second is a tape file.

The linking item of each of these records is an assigned accession number.

The inverted file is used for the searches and is an arrangement of all the descriptor codes in the system followed by the accession numbers of the documents in which the descriptors appear.

The dictionary file is the index created by program to provide the means of accessing the two disk portions of the master file.

Because these files are the heart of the system (excepting again the THESAURUS) a discussion of them is necessary to the understanding of the program.

#### THE FILES-

<u>COBOL Name</u>	<u>Descriptive Name</u>
ABBREV-CITE-FILE	Abbreviated Citation File

Description

This file is an index sequential disk file and is one of the three files that make up the complete master file. Although it is called the Abbreviated Citation File, it contains more items than just the ones needed for the Abbreviated Citation printout of the search. These other items are all of those needed for all the printouts except the complete unit record and the Accession Number within the Descriptor Listing. An additional item of each record of this file, not a part of the complete unit record, is a 2 character counter in which is stored the number of personal authors in the record.



This file is used in the Master File Update run, the Special Listings Run except when the Accession Number within Descriptor Listing (DESCRL-IR10) is being printed, and the Retrieval Run except when accession numbers only are outputted.

<u>COBOL Names</u>	<u>Descriptive Name</u>
OLD-ABSTRAK-FILE	Old Abstract File
NEW-ABSTRAK-FILE	New Abstract File
TEMP-ABSTRAC-FILE	Temporary Abstract File

#### Description

These three files are identical in record format. Each record contains one abstract from a Complete Unit Record, the classification of that abstract and the accession number of the Unit Record. The New Abstract and Old Abstract files are single reel sequential access tape files. The Old Abstract File is the input file to the Master Update Run, the New Abstract File is the output. This New Abstract File becomes the Old Abstract File on the next Master Update Run. The New Abstract File, when created, is another of the three files that make up the complete Master File. (The labels of these two files are the same, THEABSTRACT.) The Temporary Abstract File is a disk file on which the incoming update abstracts, abstract classifications, and unit record accession numbers are temporarily stored prior to their being added to the Old Abstract File to create the New Abstract File. The Temporary Abstract File is also used to supply the abstract and abstract classification in the printout of the monthly accession listing. The most current abstract tape is used as input to the Special Listing Run of IRSERCH2 to produce a dump of the master file in the form of a complete unit record listing and is used in the Retrieval Run of IRSERCH2

when the complete unit record listing is requested.

<u>COBOL Name</u>	<u>Descriptive Name</u>
DESC-R-OF-R-FILE	Descriptors and Rest of Record File

Description

This file is index sequential disk file and is one of the three files that make up the complete master file. It contains the numeric descriptor codes and the accession number of each unit record plus all the rest of the items of the unit record not contained in the abstract and Abbreviated Citation files. In addition, each record of the file contains a two character item, not a part of the complete unit record, used as a counter for the number of descriptors in each record. This file is used in the Master Update Run, in the Special Listing Run (when Complete Unit Record Listing is required), and in the Retrieval Run (when Completed Unit Record Listing is requested).

<u>COBOL Name</u>	<u>Descriptive Name</u>
THE-SEARCH--FILE	The Inverted File of Accession Numbers within Descriptors

Description

THE-SEARCH--FILE is a directly accessed disk file. Each record of this file contains a numeric descriptor code and the accession numbers if the master records in which that numeric descriptor code appears. If a descriptor has more accession numbers than space is allotted for (29 per record) then an additional record is allotted for that descriptor with space for 29 more accession

numbers. The address of this continuation record is contained in the last twelve characters of the first record and as many other continuation records as is necessary to contain all the accession numbers for a particular descriptor. These continuation records are chained in the same way to the preceeding portion of the record and so on back to the first. The numeric values of these numeric descriptor codes range from 0 to 12,999. Because of this the first one of each of 12,999 locations of the file are assigned, in ascending order of numeric descriptor code, to each descriptor and a maximum of 29 of their associated accession numbers. (Most of the descriptors have less than 29 associated accession numbers - the average is 10.) If the descriptor has more than 29 associated accession numbers than the required continuation records are assigned on a first come, first serve basis, starting at location 13,001. Location 13,000 contains the address of the next available location in the file. Since the first portion of the record (maybe the whole record) belonging to numeric descriptor code 00001 is in file location 1 of the file and that the first portion of the record belonging to numeric descriptor code 00002 is in file location 2 and so on to numeric descriptor 12,999, the numeric descriptor code itself can easily be used in an algorithm to find the disk address of the first portion of any record and in the last twelve characters of that record the address of any continuation of the record.

This search file is used in the file maintenance run of the master file, in the retrieval run, and in the listing of accession numbers by descriptors.

COBOL NameDescriptive Name

DICTIONARY--FILE

Dictionary of Master File  
Records Disk AddressesDescription

DICTIONARY--FILE is a randomly accessed disk file. It has three different type records. Type one has one record. It is in location 1 of the file. Type two has 104 records in locations 2 through 105. Type three has a variable amount beginning in location 106. The type one record contains information about the two other types of records and is explained below. The 105 type two records contain the disk addresses of locations on the ABBREV-CITE-FILE and DESC-R-OF-R-FILE that have been made available for use in the previous update by deletions and/or replacements to those two files. The rest of the file's records, type three, contain the accession numbers and disk addresses of the valid records in the ABBREV-CITE-FILE and DESC-R-OF-R-FILE. Additionally, each of these type three records contain a three character item called ACTION-CODE used to indicate that the record came from the file during the dictionary update subprogram of the Master Update Run IR03.

The type one record contains three items. The first item is the number of records of the third type, i.e., accession numbers and disk address of the valid records in ABBREV-CITE-FILE and DESC-R-OF-R-FILE.

The second item of the type one record is the address of the next available disk location (at the end of the file) in the ABBREV-CITE-FILE and DESC-R-OF-R-FILE. The third item of the type one record is the number of records of the second type record (i.e., disk address of record locations on the ABBREV-CITE-FILE and DESC-R-OF-R-FILE)

that have been made available for use in the previous update by deletions and/or replacements to these two files.

DICTIONARY--FILE is used in the master update run, the special listing run (except the accession number within descriptor listing) and the retrieval run. The locations of the type one and type two records of this file are known and can be accessed directly. The type three records are accessed using the same halving method as described for THESAURUS---FILE.

The procedure used to update these files is to randomly append each new accession to the abbreviated citation file and the descriptor-rest of record file; then to put the abstract on the temporary abstract file. . . . The next update is of the search file. New descriptors and the new replacing descriptors are added to the search file. Deleted descriptors and the old replaced descriptors are removed from the search file in a later procedure. Following the additions to the search file the update of the dictionary of the addresses of the abbreviated citation file and the descriptor-rest of record file takes place. The update of the dictionary is a process that is logically identical to the update of the THESAURUS file. After the dictionary update the deletion on the search file is performed.

The printing of the accession is the next procedure. To print the complete unit record requires an access of THESAURUS file as is described under IR03. If any of the accessions are classified or if they are to be suppressed then the title accession number and title classification is written out on another file for printing after the monthly accession listing. When this printing of the other listing (classified and suppressed accessions) is completed the IRS file maintenance is through.

PROGRAM ID: IR04

TITLE: THESAURUS UPDATE (IRS-THES)

PURPOSE OF PROGRAM: The purpose of the program is to give the capability to update the THESAURUS file with additions, replacements, and deletions.

ANALYST: Jack D. Mahle, Jr.

PROGRAMMER: Jack D. Mahle, Jr.

DOCUMENTED BY: Jack D. Mahle, Jr.

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS: 1 Magnetic Tape Transport  
1 Disk Pack Drive  
Line Printer  
Card Reader

OBJECT TIME STORAGE  
REQUIREMENTS

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

The THESAURUS file is a randomly accessed disk file. Each of its records contain a subject matter descriptor (English language) and the associated numeric code. Since the subject matter descriptor codes are maintained on the master file (the DESC-R-OF-R-FILE portion of the master file) in their numeric code form, it is through the use of this THESAURUS file that the English language equivalents are obtained for the various printouts as required.

The file, although randomly accessed, is maintained in ascending order of numeric descriptor codes.

The means of accessing the particular record needed is through a halving process. The numeric code to be translated is compared to the numeric codes of the nine records of the block of records at the middle of the file. Then, depending on whether it is greater or less than these numeric codes, it is compared to the numeric codes of the records of the block of records at the middle of the top half or bottom half of the file. This method of halving continues until the matching numeric code is found and the English language equivalent then is moved to the printout area. This method of accessing the THESAURUS file is not used in this program. However, since it is the method of accessing this file the technique is discussed here.

The method used to update the THESAURUS file is an "inplace" updating technique. The file is opened as an input/output file and selected as randomly accessed. Because of this, since the file is sequentially ascending arranged because of an input area equal in size to the maximum number of input cards, the file can remain essentially inplace. When an input record that fits between two existing file records is encountered the higher one of those records from the file can be moved into the input area, the input area internally resorted, and processing continues from that point.

After the update of the THESAURUS is completed two types of listings can be produced depending upon the options declared on the THESAURUS LISTING OPTION CARD. (See Appendix C, page C-2). One listing is of all the additions, replacements, and deletions to and from the file. The other listing is a dump of the whole THESAURUS file as it is following the update.



PROGRAM ID'S: IR05, IR06, IR07

TITLES: DISK FILE SAVE PROGRAMS

PURPOSE OF PROGRAMS: The purpose of these three programs is to provide the means to dump the five disk files onto tape and to be able to put them back onto the disks. The necessity for this capability is to provide the necessary back-up files on tape.

ANALYST: Jack D. Mahle, Jr.

PROGRAMMER: Jack D. Mahle, Jr.

DOCUMENTED BY: Jack D. Mahle, Jr.

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS: 2 Magnetic Tape Transports  
4 Disk Pack Drives

OBJECT TIME STORAGE  
REQUIREMENTS -

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

These three programs are designed to enable the saving and restoration of the five permanent disk files of the system. These files are written out onto tape in a format on disk. This enables the entire process to be essentially a disk to tape and tape to disk procedure. The five files that can be saved and restored are (1) the abbreviated citation file, (2) the descriptor-rest of record file, (3) the search file, (4) the dictionary file, and (5) the thesaurus file. The program to save and restore the first two files (1) and (2) is one program; the program to save and restore the second two files (3) and (4) is one program; the program to save and restore the fifth file (5) is one program.

PROGRAM ID:

IR08

TITLE:

IRSERCH

PURPOSE OF PROGRAM:

The purpose of this program is process the search criteria cards and to retrieve all of the accession numbers of the documents that contain the descriptors of the search criteria card. These descriptors are both the positive and negative descriptors (i.e., AND, OR, & BUT NOT & NOR descriptors). These accession numbers are written out on to two files, positive and negative.

ANALYST:

Jack D. Mahle, Jr.

PROGRAMMER:

Jack D. Mahle, Jr.

DOCUMENTED BY:

Jack D. Mahle, Jr.

SOURCE LANGUAGE:

COBOL

COMPUTER:

CDC 3150

REQUIRED COMPONENTS:

Card Reader  
2 Disk Pack Drives

OBJECT TIME STORAGE  
REQUIREMENTS -

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

This program processes the four type cards of the search criteria (see Appendix C). According to the search criteria cards submitted, the positive (AND & OR) and negative (BUT NOT & NOR) accession numbers are retrieved from the search file. These accession numbers, with the proper identifying information, are written out onto temporary disk files to be processed later by the next program, IRSERCH2, IR09. But prior to input to this IRSERCH2 program the two files must be sorted by accession number.

PROGRAM ID: IR09

TITLE: IRSERCH2

PURPOSE OF PROGRAM: This program has three modes of operation: (1) as the file selector and print program for the Boolean type searches started in IRSERCH, (2) as the only program for the personal author, corporate author, contract number, and series number searches, (3) as the print program for the special listing of the whole file; i.e., "UNITRECORD BY ACCESSION NUMBER".

ANALYST: Jack D. Mahle, Jr.

PROGRAMMER: Jack D. Mahle, Jr.

DOCUMENTED BY: Jack D. Mahle, Jr.

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS:      Card Reader  
                             2 Magnetic Tape Transports  
                             4 Disk Pack Drives  
                             Line Printer

OBJECT TIME STORAGE  
REQUIREMENTS -

    Main Memory:  
    Secondary:

PROGRAM DESCRIPTION:

    To perform the main purpose of this program; i.e., the final selection and printing out of accession numbers, the output from IRSERCH must have been sorted prior to input to this program. The same search criteria cards submitted in IRSERCH must be resubmitted with this program. There is an additional card that must be submitted to this program prior to the search criteria cards. This card is the "NAME" card. For the format of this card see Appendix C. To perform the second purpose of this program requires no previous run of IRSERCH. Two cards are required by this procedure. These control cards are the "SEARCH CARD", used to indicate the type of listing desired and the "SEARCH CARD 2" used to indicate the type of search and to give the search parameter. For the format of these cards see Appendix C. To perform the third purpose of this program also requires no previous run of IRSERCH but does require a control card (see Appendix C, page C-9). This control card causes the listing of the entire master file in complete unit record format by accession number.

PROGRAM ID'S: IR10, IR11, IR12

TITLES: SPECIAL LISTING PROGRAMS

PURPOSE OF PROGRAMS: The purpose of these three programs is to list selected information of the master file sorted by personal author, corporate author, contract number, and series number and to list the accession numbers by descriptors.

ANALYST: Jack D. Mahle, Jr.

PROGRAMMER: Sally Lukasiewicz

DOCUMENTED BY: Jack D. Mahle, Jr.

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS: 4 Disk Pack Drive  
Line Printer  
Card Reader

OBJECT TIME STORAGE  
REQUIREMENTS -

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

These three programs are the extraction program and print programs required to produce the special listings sequenced by personal author, corporate author, contract number, series number, and accession number by descriptor number. IR10 is the program to produce the accession number by descriptor number. IR11 extracts the information from the abbreviated citation file for the special listings of IR12 which is the print program for the rest of the special listings.



APPENDIX A  
SYSTEM FLOWCHARTS

(The System Flowcharts are in a separately bound volume with Appendix B, the Detailed Flowcharts.)

APPENDIX B  
DETAILED FLOWCHARTS

(The Detailed Flowcharts are in  
a separately bound volume.)

APPENDIX C  
CARD FORMATS

LISTING SUPPRESS CARD

CARD FORMAT

TITLE		LISTING		SUFFIX		PAGE	
ALPHA	NUMERIC	ALPHA	NUMERIC	ALPHA	NUMERIC	ALPHA	NUMERIC
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104
105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136
137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152
153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168
169	170	171	172	173	174	175	176
177	178	179	180	181	182	183	184
185	186	187	188	189	190	191	192
193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208
209	210	211	212	213	214	215	216
217	218	219	220	221	222	223	224
225	226	227	228	229	230	231	232
233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248
249	250	251	252	253	254	255	256
257	258	259	260	261	262	263	264
265	266	267	268	269	270	271	272
273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288
289	290	291	292	293	294	295	296
297	298	299	300	301	302	303	304
305	306	307	308	309	310	311	312
313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328
329	330	331	332	333	334	335	336
337	338	339	340	341	342	343	344
345	346	347	348	349	350	351	352
353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368
369	370	371	372	373	374	375	376
377	378	379	380	381	382	383	384
385	386	387	388	389	390	391	392
393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408
409	410	411	412	413	414	415	416
417	418	419	420	421	422	423	424
425	426	427	428	429	430	431	432
433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448
449	450	451	452				

TO SUPPRESS THE LISTING OF ANY NEW UNIT RECORD FROM  
COMING OUT ON MONTHLY ACCESSION LISTING- PUT THE  
ACCESSION NUMBER OF THAT UNIT RECORD ON THIS TYPE  
CARD. UP TO 14 ACCESSION NUMBERS PER CARD ARE  
PERMITTED. UP TO 5 "LISTING SUPPRESS" CARD MAY  
BE INCLUDED IN ANY ONE FILE MAINTENANCE RUN.

# APPENDIX C

## THESAURUS LISTING OPTION CARD

CARD FORMAT

TITLE		ALPHA A		A/N		ALPHA		BETA		WTL		OPTION		FILLER																																																																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
THESLIST		DD/HH/YY		FILLER		ARD		FILLER		WTL		OPTION		FILLER																																																																	
						*				**																																																																					

\* TO GET A LISTING OF THE ADDITIONS, REPLACEMENTS, AND DELETIONS TO THE THESAURUS PUT "ARD" IN CARD COLUMNS 21, 22, & 23.

\*\* TO GET A LISTING OF THE ENTIRE THESAURUS FILE PUT "WTL" IN CARD COLUMNS 26, 27, & 28.



# APPENDIX C

CARD FORMAT

## NAME CARD

TYPE OF LISTING										ALPHA NUMERIC										ALPHA NUMERIC										FILLER																																																	
BANKS										REQUEST NUMBER										REQUESTER'S NAME										REQUESTER'S ORGANIZATION										FILLER																																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

THE "NAME CARD" IS USED IN BOOLEAN TYPE\* SEARCHES TO SPECIFY THE TYPE OF LISTING DESIRED I.E.,

(1) ACCESSION NUMBER ONLY OR (2) ACCESSION NUMBER AND ABBREVIATED CITATION OR (3) ACCESSION NUMBER AND COMPLETE UNIT RECORD. FOR (1) PUT "AN" IN CARD COLUMNS 9 & 10; FOR (2) PUT "AC" IN CARD COLUMNS 9 & 10; FOR (3) PUT "UR" IN CARD COLUMNS 9 & 10.

\* WITH "AND", "OR", BUT NOT, & "NOR" CARDS





# TIME OTHER SEARCHES<sup>†</sup> SEARCH CARD

CARD FORMAT

## APPENDIX C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
ALPHA										H/N										TYPE LISTING										REQUEST NUMBER										FILER																																							
SEARCH																																																																															

\* SPECIFY "UR" FOR COMPLETE UNIT RECORD LISTING OR  
 "AC" FOR ABBREVIATED CITATION LISTING IN  
 CARD COLUMNS 9 & 10.

† THE OTHER SEARCHES ARE:

- CORPORATE AUTHOR SEARCH,
- PERSONAL AUTHOR SEARCH, AND
- COUNTRY NUMBER SEARCH, AND
- SERIES NUMBER SEARCH.

A SECOND SEARCH CARD, "SEARCH02", IS REQUIRED (SEE C-6).

# OTHER SEARCHES SEARCH CARD 2

## APPENDIX C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
SEARCHED										INDEXED										SERIALIZED										FILED																																																	
PERSONAL AUTHOR										CORPORATE AUTHOR										CONTACT NUMBER										SERIES NUMBER																																																	
1										2										3										4																																																	
5										6										7										8																																																	
9										10										11										12																																																	
13										14										15										16																																																	
17										18										19										20																																																	
21										22										23										24																																																	
25										26										27										28																																																	
29										30										31										32																																																	
33										34										35										36																																																	
37										38										39										40																																																	
41										42										43										44																																																	
45										46										47										48																																																	
49										50										51										52																																																	
53										54										55										56																																																	
57										58										59										60																																																	
61										62										63										64																																																	
65										66										67										68																																																	
69										70										71										72																																																	
73										74										75										76																																																	
77										78										79										80																																																	

\* THIS CARD IS USED IN CONJUNCTION WITH THE "OTHER SEARCHES SEARCH CARD", THIS CARD INDICATES THE TYPE OF SEARCH IN CARD COLUMNS 9 AND 10. TO PERFORM A PERSONAL AUTHOR SEARCH PUT "PA" IN 9 & 10 AND THE PERSONAL AUTHOR IN 11 THRU 30; TO PERFORM A CORPORATE AUTHOR SEARCH PUT "CA" IN 9 & 10 AND THE CORPORATE AUTHOR IN 11 THRU 80; TO PERFORM A CONTACT NUMBER SEARCH PUT "CN" IN 9 & 10 AND THE CONTACT NUMBER IN 11 THRU 30; TO PERFORM A SERIES NUMBER SEARCH PUT "SR" IN 9 & 10 AND THE SERIES NUMBER IN 11 THRU 40.

# THE SPECIAL LISTINGS OPTION CARD

CARD FORMAT

APPENDIX C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
OPTIONAL INFORMATION										FILLER																																																																					

\* THIS CARD IS USED WITH THE SPECIAL LISTING PROGRAMS "FORACC" AND "ACCLIST"

- TO LIST TITLE, DATE, & ACCESSION NUMBER BY PERSONAL AUTHOR - PUT "OPTION01" IN CARD COLUMNS 1 THRU 9
- TO LIST TITLE, DATE, & ACCESSION NUMBER BY COUNTRY NUMBER - PUT "OPTION02" IN CARD COLUMNS 1 THRU 9
- TO LIST TITLE, DATE, & ACCESSION NUMBER BY SERIES NUMBER - PUT "OPTION03" IN CARD COLUMNS 1 THRU 9
- TO LIST TITLE, DATE, & ACCESSION NUMBER BY 1ST & 2ND CATALOG NUMBER - PUT "OPTION04" IN CARD COLUMNS 1 THRU 9

→ THE APPROPRIATE OPTION CARD MUST BE USED WITH FORACC & ACCLIST ←

# APPENDIX C

CARD FORMAT

LIST WHOLE FILE OPTION CARD

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
LISTFILE										FILLER																																																																					

THIS CARD IS USED IN IRSEARCH2 TO LIST THE ENTIRE  
FILE IN COMPLETE UNIT RECORD FORMAT i.e., UNIT RECORD BY  
ACCESSION NUMBER.

ABC FORM 1000-1

APPENDIX D  
RECORD FORMATS



# DISK PACK TITLE: ABBREVIATED CONTINUOUS FILE (CONT.)

DATA PROCESSING STORAGE FORMAT

## APPENDIX D

CHARS FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DATA	<div> <div>200</div> <div>ALPHANUMERIC</div> </div> <div> <div>30</div> <div>ALPHANUMERIC</div> </div> <div> <div>40</div> <div>ALPHANUMERIC</div> </div> <div> <div>50</div> <div>ALPHANUMERIC</div> </div> <div> <div>60</div> <div>ALPHANUMERIC</div> </div> <div> <div>70</div> <div>ALPHANUMERIC</div> </div> <div> <div>80</div> <div>ALPHANUMERIC</div> </div> <div> <div>90</div> <div>ALPHANUMERIC</div> </div> <div> <div>100</div> <div>ALPHANUMERIC</div> </div> <div> <div>110</div> <div>ALPHANUMERIC</div> </div> <div> <div>120</div> <div>ALPHANUMERIC</div> </div> <div> <div>130</div> <div>ALPHANUMERIC</div> </div> <div> <div>140</div> <div>ALPHANUMERIC</div> </div> <div> <div>150</div> <div>ALPHANUMERIC</div> </div> <div> <div>160</div> <div>ALPHANUMERIC</div> </div> <div> <div>170</div> <div>ALPHANUMERIC</div> </div> <div> <div>180</div> <div>ALPHANUMERIC</div> </div> <div> <div>190</div> <div>ALPHANUMERIC</div> </div> <div> <div>200</div> <div>ALPHANUMERIC</div> </div> <div> <div>210</div> <div>ALPHANUMERIC</div> </div> <div> <div>220</div> <div>ALPHANUMERIC</div> </div> <div> <div>230</div> <div>ALPHANUMERIC</div> </div> <div> <div>240</div> <div>ALPHANUMERIC</div> </div> <div> <div>250</div> <div>ALPHANUMERIC</div> </div> <div> <div>260</div> <div>ALPHANUMERIC</div> </div> <div> <div>270</div> <div>ALPHANUMERIC</div> </div> <div> <div>280</div> <div>ALPHANUMERIC</div> </div> <div> <div>290</div> <div>ALPHANUMERIC</div> </div> <div> <div>300</div> <div>ALPHANUMERIC</div> </div>																													

FILE NAME: ABBREV-CATE-FILE  
 RECORD LENGTH: 758 CHARACTERS  
 BLOCKING FACTOR: 1:1

AMC Form 1601-R

# APPENDIX D

DATA PROCESSING STORAGE FORMAT

MEDIA: DISK PACK  
 TITLE: THESAURUS (TH-THESAURUS & THESAURUS-JNFD)

CHARS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	14
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# DISK PACK

MEDIA: DESCRIPTION AND LIST OF RECORD FILE

DATA PROCESSING STORAGE FORMAT  
DESCRPTION - LIST OF RECORD INPUT FILE

APPENDIX D

CHARS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																				
FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																				
FIELD NAME	ALPHANUMERIC										ALPHANUMERIC										ALPHANUMERIC																													
DATA	SHORT TITLE										REPORT TYPE AND DATE										NUMBER OF PAGES AND REFERENCE										COPY NUMBER										CONTROL NUMBER									

CHARS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																																																		
FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																																																		
FIELD NAME	ALPHANUMERIC										ALPHANUMERIC										ALPHANUMERIC																																																											
DATA	CONTROL NUMBER CONT.										PROJECT NUMBER I										PROJECT NUMBER II										TASK AND WORK UNIT NUMBERS I										TASK AND WORK UNIT NUMBERS II										1ST CORP. AUTHOR CODE										2ND CORP. AUTHOR CODE										SUPPLEMENTARY NOTE									

CHARS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
FIELD NAME	ALPHANUMERIC																													
DATA	SUPPLEMENTARY NOTE (CONT.)																													

CHARS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
FIELD NAME	ALPHANUMERIC																													
DATA	(UP TO) 48 DESCRIPTIONS (CONT.)																													

FILE NAME: DESC-R-OF-R-FILE & DRFIN  
RECORD LENGTH: 538 CHARACTERS  
BLOCKING FACTOR: 1:1

DISK PACK

MEDIA: DATA PROCESSING STORAGE FORMAT

TITLE: DESCRIPTIVE LIST OF PLOTTED INPUT FILE

DISK PACK DATA PROCESSING STORAGE FORMAT  
MEDIA: DESCRIPTION AND SIZE OF PACKS FILE & DECRYPTION-ROT OF ENCRYPTED INPUT FILE  
TITLE:

[illegible][illegible][illegible][illegible]

FILE NAME: DESQ-D-OF-12-FILE & DRFTN  
RECORD LENGTH: 538 CHARACTERES  
BLOCKING FACTOR: 1:2

# APPENDIX D

DATA PROCESSING STORAGE FORMAT

MEDIA: DISK PACK  
TITLE: SEARCH FILE

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
DATA																																																																																																				

(UP TO) 29 ACCESSION NUMBERS

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
DATA																																																																																																				

ACCESSION NUMBERS (CONT.)

REMAINDER  
OF  
RECORDED ADDRESS

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
DATA																																																																																																				

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
DATA																																																																																																				

FILE NAME: THE-SEARCH-FILE  
RECORD LENGTH: 164 CHARACTERS  
BLOCKING FACTOR: 3:1

MAC Form 1401-R  
DEC 67



# APPENDIX D

MEDIA: DISK PACK  
 TITLE: ABSTRACT INPUT FILE & TEMPORARY ABSTRACT FILE  
 DATA PROCESSING STORAGE FORMAT

CHARS	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
FIELD TYPE	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC
DATA																				
ABSTRACT																				

FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DATA																				

FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DATA																				

FIELD TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DATA																				

FILE NAME: ABFIN & TEMP-NEED/ACFILE  
 RECORD LENGTH: 986  
 BLOCKING FACTOR: 1:1

# APPENDIX D

## DATA PROCESSING STORAGE FORMAT

MEDIA: DISK PACK  
TITLE: DICT 1000

FIELD NUMBER	17	20
NAME	NUMBER	UNIT
DATA RECORD I	RELATIVE FILE NUMBER OF	RECORD
	ADDRESS OF THE FIRST RECORD	
	DISC ADDRESS	

FIELD NUMBER	12	14
NAME	FILE	RECORD
DATA RECORD II	ADDRESS OF THE FIRST RECORD	
	DISC ADDRESS	

FIELD NUMBER	12	14
NAME	FILE	RECORD
DATA RECORD III	ADDRESS OF THE FIRST RECORD	
	DISC ADDRESS	

FIELD NUMBER	12	14
NAME	FILE	RECORD
DATA RECORD IV	ADDRESS OF THE FIRST RECORD	
	DISC ADDRESS	

FILE NAME: DICTIONARY--FILE  
RECORD LENGTH: 20 CHARACTERS  
BLOCKING FACTOR: 21:1



# APPENDIX D

STANDARD FLEXIBILITY BENCHMARK DATA PROCESSING STORAGE FORMAT

TITLE: UNIT ACED

DATA	FOR THE FLEXIBILITY OF THE FLEXIBILITY PAPER THREE INPUT TO THE FLEXIBILITY OF THE FLEXIBILITY SYSTEM SEE *SIMULATIONS OF OTHER OF CATALAN CHANGES AND COMPUTER INPUT BY ALBERTO J. GARCIA
------	---

DATA	FOR THE FLEXIBILITY OF THE FLEXIBILITY PAPER THREE INPUT TO THE FLEXIBILITY OF THE FLEXIBILITY SYSTEM SEE *SIMULATIONS OF OTHER OF CATALAN CHANGES AND COMPUTER INPUT BY ALBERTO J. GARCIA
------	---

DATA	FOR THE FLEXIBILITY OF THE FLEXIBILITY PAPER THREE INPUT TO THE FLEXIBILITY OF THE FLEXIBILITY SYSTEM SEE *SIMULATIONS OF OTHER OF CATALAN CHANGES AND COMPUTER INPUT BY ALBERTO J. GARCIA
------	---

DATA	FOR THE FLEXIBILITY OF THE FLEXIBILITY PAPER THREE INPUT TO THE FLEXIBILITY OF THE FLEXIBILITY SYSTEM SEE *SIMULATIONS OF OTHER OF CATALAN CHANGES AND COMPUTER INPUT BY ALBERTO J. GARCIA
------	---

FILE NAME: F2 X9000  
RECORD LENGTH: 1000  
BLOCKING FACTOR: 1





# APPENDIX D

DATA PROCESSING STORAGE FORMAT

MEMO DISK PAGE 1  
 TITLE DISK PAGE 1

CHARS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
DATA	(SAME AS ABBREVIATED CITATION FILE)																																																																																																			
DATA	(SAME AS ABBREVIATED CITATION FILE)																																																																																																			
DATA	(SAME AS ABBREVIATED CITATION FILE)																																																																																																			

FILE NAME: DISK PAGE 1  
 DISK PAGE 1  
 DISK PAGE 1

DATA PROCESSING STORAGE FORMAT

MEDIA: DISK PACK  
TITLE: TEMPORARY ADDRESSING UNIT FILE

[illegible]

THIS, IS

FOR RUMBLE  
IN RUMBLE  
RUMBLE IN

[illegible][illegible]

DATE	DATA
1962-1963	

FILE NAME:  
RECORD LENGTH:  
BLOCKING FACTOR:



NUMBERS TEMPORARY DISK FILES

FILE NAME: GDACCIN, BDACCIN, CHOST J60, & CHOSEN J60  
RECORD LENGTH: 17 CHARACTERS  
BLOCKING FACTOR: 10:1

APPENDIX E  
PRINTED OUTPUT FORMATS

## APPENDIX E

UNCLASSIFIED

THESE ARE LISTING

DATE - DD/MM/YY

DESCRIPTORS -

NUMERIC CODE

XXXXX

ENGLISH LANGUAGE

~~XXXXXXXXXXXXXXX~~

XXXXX

~~XX~~

PAGE NUMBER - XXXX

# APPENDIX E

DATE - 0D/AM/YY

## THESAURUS LISTING

- ADDITIONS - REPLACEMENTS - DELETIONS - (total max of 85)

UNCLASSIFIED

(AS ADDITIONS MADE TO THE THESAURUS THIS UPDATE, OR THE FOLLOWING DESCRIPTIONS WERE ADDED TO THE THESAURUS -

NUMERIC CODE ENGLISH LANGUAGE  
XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(max of 85)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(AS DESCRIPTIONS REPLACED IN THIS UPDATE, OR THE FOLLOWING ENGLISH LANGUAGE DESCRIPTIONS WERE CHANGED -

NUMERIC CODE THESE DESCRIPTIONS BELOW REPLACED IN THIS UPDATE, OR THESE

XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(max of 85)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(AS DESCRIPTIONS DELETED IN THIS UPDATE, OR THE FOLLOWING DESCRIPTIONS WERE DELETED FROM THE THESAURUS -

NUMERIC CODE ENGLISH LANGUAGE  
XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(max of 85)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

PAGE NUMBER - X





# APPENDIX E

## SUPPRESSED AND CLASSIFIED RECORDS LISTING

ACCESSION NUMBER - XXXXX	TITLE CLASSIFICATION - (X)	USE LINE-NUMB-03 from NON ALC-107	USE LINE-NUMB-04 from MOD ALC-107
TITLE - X<			
X<			
XXXX/XXXX			

(OR)

NO SUPPRESSED RECORDS THIS UPDATE  
(OR)  
NO CLASSIFIED RECORDS THIS UPDATE

PAGE NUMBER - XXXX



# APPENDIX E

[illegible]

~~XXXXXXXXXXXXXXXXXXXX XXXXX~~

[illegible]

Y. Y. Y.

# THE EFFECT OF THE DEFORMATION OF THE DEFORMATION

[illegible]

XXXXXXXX XXXXX XXXXX XXXXX XXXXX  
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XXXX XXXX XXX XXX XXX XXX XXX XXX XXX

XXXX XXXX XXXX X.X XXXX  
XXXX XXXX XXXX XXXX XXXX

NO. 1000

# ATTACH THE COLLECTION NUMBERS OF THE DOCUMENTS

XXXXX XXXX XXXX XXXX  
 XXXX XXXX XXXX  
 XXXX XXXX XXXX

XXXXX XXXX XXXX XXXX XXXX XXXX XXXX

1111

# APPENDIX E

## PERSONAL AUTHOR LISTING

PERSONAL AUTHOR - XXXXXXXXXXXXXXXXXXXX  
 ACCESSION NUMBER - XXXX TITLE - XXXXXXXXXXXXXXXXXXXX  
 DATE OF REPORT - XXXXXXXXXXXX  
 OTHER PERSONAL AUTHOR(S) - XXXXXXXXXXXXXXXXXXXX

PERSONAL AUTHOR - XXXXXXXXXXXXXXXXXXXX  
 ACCESSION NUMBER - XXXX TITLE - XXXXXXXXXXXXXXXXXXXX  
 DATE OF REPORT - XXXXXXXXXXXX  
 OTHER PERSONAL AUTHOR(S) - XXXXXXXXXXXXXXXXXXXX

PERSONAL AUTHOR - XXXXXXXXXXXXXXXXXXXX  
 ACCESSION NUMBER - XXXX TITLE - XXXXXXXXXXXXXXXXXXXX  
 DATE OF REPORT - XXXXXXXXXXXX  
 OTHER PERSONAL AUTHOR(S) - XXXXXXXXXXXXXXXXXXXX

PERSONAL AUTHOR - XXXXXXXXXXXXXXXXXXXX  
 ACCESSION NUMBER - XXXX TITLE - XXXXXXXXXXXXXXXXXXXX  
 DATE OF REPORT - XXXXXXXXXXXX  
 OTHER PERSONAL AUTHOR(S) - XXXXXXXXXXXXXXXXXXXX

PAGE NUMBER - XXXX



# APPENDIX E

## CONTRACT NUMBER LISTING

CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX

ACCESSION NUMBER - XXXX

DATE OF REPORT - XXXXXXXX

OTHER CONTRACT NUMBER - XXXXXXXXXXXXXXXX

XXXXXXXXXX  
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CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX

ACCESSION NUMBER - XXXX

DATE OF REPORT - XXXXXXXX

OTHER CONTRACT NUMBER - X

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CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX

ACCESSION NUMBER - XXXX

DATE OF REPORT - XXXXXXXX

OTHER CONTRACT NUMBER - X

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XXXXXXXXXX

CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX

ACCESSION NUMBER - XXXX

DATE OF REPORT - XXXXXXXX

OTHER CONTRACT NUMBER - X

XXXXXXXXXX  
XXXXXXXXXX  
XXXXXXXXXX

PRE NUMBER - XXXX

# APPENDIX E

## SERIES LISTING

SERIES - XXXXXXXXXX  
 ACCESSION NUMBER - XXXX  
 DATE OF REPORT - XXXXXXXX  
 OTHER SERIES - XXXXXXXXXX

SERIES - XXXXXXXXXX  
 ACCESSION NUMBER - XXXX  
 DATE OF REPORT - XXXXXXXX  
 OTHER SERIES - X

SERIES - XXXXXXXXXX  
 ACCESSION NUMBER - XXXX  
 DATE OF REPORT - XXXXXXXX  
 OTHER SERIES - X

SERIES - XXXXXXXXXX  
 ACCESSION NUMBER - XXXX  
 DATE OF REPORT - XXXXXXXX  
 OTHER SERIES - X

PAGE NUMBER - XXXX



# APPENDIX E

ACCESSION NUMBER LISTING

REQUEST NUMBER - XXXXXXXXXX

REQUESTER - XXXXXXXXXX XXXXXXXXXX

SEARCH CRITERIA - XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
OR X OF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
OR X OF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
OR X OF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
OR X OF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
OR X CF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
BUT NOT XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
NCR X CF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
NCR X CF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
NCR Y CF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
NCR Y CF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,  
NCP X CF XXXX, XXXX, XXXX, XXXX, XXXX, XXXX,

ACCESSION NUMBERS FETTERED -

[illegible]

E-11

PAGE NUMBER - XXXX

ABBREVIATED CITATION LISTING

ACCESSION NUMBER - XXXXX

DATE OF REPORT - XXXXX/XXXXX

3713

11

CORPORATE AUTHOR(S) - X-

5

PERSONAL AUTHOR(S) -

SECRET

XXXXXXXXXX - 25200N 1530030

7111 - 1111

—

CORPORATE AUTHORITY -

2000

PERSONAL AUTHEL(S) -

PERSONAL ACTIVITY -

REQUEST NUMBER - XXXXXX/XXX

**TITLE - X**

**TITLE - XX**

**X**

CORPORATE

PERSONAL

PAGE NUMBER - XXXX

APPENDIX H  
OPERATING INSTRUCTIONS

# 3150 OPERATING INSTRUCTIONS

MAX. TIME 10 SEQUENCE NO. \_\_\_\_\_

RUN ID TP01 RUN NAME PAPER TAPE READ PROGRAM

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MEO/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
OUT:		01	TAP-ON	1	1 N	TAPE FOR UNIT 1 31002-ONTARIO

## CARDS:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## DISK:

PACK NO. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PAPER \_\_\_\_\_ CARRIAGE TAPE \_\_\_\_\_

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

1. MOUNT THE PAPER TAPE  
ON PAPER TAPE READER 12 TO READING  
PROGRAM DECK, PAPER THE P.T. READER 12.  
WHEN A STOP CODE IS ENCOUNTERED A MESSAGE  
"IS THERE MORE TAPE TO BE READ? TYPE  
YES OR NO." IF THERE IS MORE TYPE "YES";  
LOAD THE TAPE, & PUSH "GO".  
IF NOT TYPE "NO". THE PROGRAM STOPS.  
THE MAGNETIC TAPE OUTPUT IS INPUT TO UNIT 12  
(1202) PROGRAM. H-1

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION


-----  
OPERATOR COMMENTS:

## 3150 OPERATING INSTRUCTIONS

MAX. TIME 20 SEQUENCE NO. \_\_\_\_\_

RUN ID IROZ RUN NAME ONTODISK

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MSOF/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
-----	------	-----	-------	------	------	-------------

	01	TAP IN	1	OUT	SAVE
	02	OLD POINT	1	OUT	SAVE
OUT:					

CARDE:

[illegible]

OUT: LABEL	DISPOSITION
1	
2	
3	
4	
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11	
12	
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99	
100	

DISK: ARFEN, ARFEN, HEAD, REVERSED, DESCRIPTION-REST, DISK NAME ( )  
PACK NO. 0000000000, 0000000000, 0000000000, 0000000000, 0000000000, 0000000000

PRINTER:

LABEL	FORM NO.	PARTS	CARRIAGE TAPE
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PAPER TAPE:

<u>IN:</u>	<u>LABEL</u>	<u>DISPOSITION</u>

OUT: LABEL	DISPOSITION
100	
101	
102	
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199	

SPECIAL INSTRUCTIONS:

SPECIAL INSTRUCTIONS: THE MAGNETIC TAPE CREATED IN IROL IS THE INPUT TO THIS PROGRAM. THE "OLD-APRIST" TAPE MUST BE MOUNTED EACH TIME FOR LABEL CHECKING. ALTHOUGH IT IS ACTUALLY ONLY NEEDED PRECEDING INPUT RECORDS WITH ACTION CODES OF "CHA" & "CHG".

SMUFD FORM 2006 (Test)

(Aug 68)

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION


-----  
OPERATOR COMMENTS:





HALTS:  
NO.

CAUSE/CORRECTIVE ACTION

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OPERATOR COMMENTS:

## 3150 OPERATING INSTRUCTIONS

MAX. TIME 10 SEQUENCE NO. \_\_\_\_\_  
 RUN ID IRD4 RUN NAME THESAURUS UPDATE (IRS-THES)

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MSOF/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
OUT:						

CARDS: THESAURUS LISTING S

IN: LABEL THESAURUS UPDATE DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## DISK:

PACK NO. THESAURUS, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PAPER \_\_\_\_\_ CARRIAGE TAPE \_\_\_\_\_

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

SEE APPENDIX C, page C-3, FOR THE  
 FORMAT OF THE THESAURUS UPDATE CARD. 85  
 "AD", "RP", & "DL" CARDS IS THE MAXIMUM NUMBER  
 THAT MAY BE INPUT IN ANY ONE RUN. THE  
 THESAURUS LISTING CARD (SEE APPENDIX C page C-2)  
 DETERMINES THE TYPE OF LISTING THAT ARE  
 PRODUCED.

SMOED FORM 2006 (Test)  
 (Aug 68)

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION

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OPERATOR COMMENTS:

## 3150 OPERATING INSTRUCTIONS

MAX.TIME 5 SEQUENCE NO. \_\_\_\_\_RUN ID IR05 RUN NAME THESAUROS SAVE PROGRAM

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MEOG/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
FDR "RESTORE"		02	THESAUROS	1	OUT	SAVE
OUT: FDR "SAVE"		01	THESAUROS	1	OUT	SAVE

## CARDS:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## DISK:

PACK NO. THESAUROS FILE, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PARTS \_\_\_\_\_ CARRIAGE TAPE \_\_\_\_\_

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

THIS PROGRAM SAVE & RESTORE  
THE THESAUROS DISK FILE. TO PERFORM  
THE SAVE, I.E., DISK TO TAPE, TYPE "DISKTAPE"  
WHEN REQUESTED. TO PERFORM THE RESTORE,  
I.E., TAPE BACK TO DISK, TYPE "TAPE DISK" WHEN  
REQUESTED.

SMUFD FORM 2006 (Test)  
(Aug 68)

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION

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OPERATOR COMMENTS:

## 3150 OPERATING INSTRUCTIONS

MAX. TIME 20 SEQUENCE NO. \_\_\_\_\_  
 RUN ID IR06 RUN NAME DICTIONARY FILE & SEARCH  
FILE SAVE PROGRAM  
 REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MEO/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
FOR "RESTORE"		01	DICTIONARY FILE	1	OUT	SAVE
		02	SEARCH FILE	1	OUT	SAVE
OUT: FOR "SAVE"		01	DICTIONARY FILE	1	IN	SAVE
		02	SEARCH FILE	1	IN	SAVE

## CARDS:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

DISK: DICTIONARY SEARCH  
 PACK NO. FILE, FILE, \_\_\_\_\_, \_\_\_\_\_

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PARTS \_\_\_\_\_ CARRIAGE TAPE \_\_\_\_\_

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

THIS PROGRAM SAVES & RESTORES  
 THE TWO DISK FILES "DICTIONARY" & "THE  
 SEARCH FILE". TO PERFORM THE SAVE, I.E.,  
 DISK TO TAPE, TYPE "DISKTape" WHEN REQUESTED.  
 TO PERFORM THE RESTORE, I.E., TAPE BACK TO  
 DISK, TYPE "TAPEDISK" WHEN REQUESTED.

SMUFD FORM 2006 (Test)  
 (Aug 68)

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION


-----  
OPERATOR COMMENTS:

## 3150 OPERATING INSTRUCTIONS

MAX.TIME 10

SEQUENCE NO. \_\_\_\_\_

RUN ID IR07

RUN NAME

ABBREVIATED CITATION FILE &  
DESCRIPTOR-REST OF RECORD FILE SAVE  
PROGRAM

REQUESTER \_\_\_\_\_

ATTEND \_\_\_\_\_

AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_

WORK CODE \_\_\_\_\_

STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_

MEOC/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

MAG.TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
FOR "RESTORE"		01	ABBREVIATED CITATION FILE	1	OUT	SAVE
		02	DESCRIPTOR- REST OF RECORD FILE	1	OUT	SAVE
OUT: FOR "SAVE"		01	ABBREVIATED CITATION FILE	1	IN	SAVE
		02	DESCRIPTOR- REST OF RECORD FILE	1	IN	SAVE

CARDS:

IN:

LABEL \_\_\_\_\_

DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_

DISPOSITION \_\_\_\_\_

DISK:

ABBREVIATEDDESCRIPTOR

PACK NO.

ABBREVIATED FILEDESCRIPTOR-REST OF RECORD FILE

PRINTER:

LABEL \_\_\_\_\_

FORM NO. \_\_\_\_\_

PAPER \_\_\_\_\_

CARRIAGE TAPE \_\_\_\_\_

PAPER TAPE:

IN:

LABEL \_\_\_\_\_

DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_

DISPOSITION \_\_\_\_\_

SPECIAL INSTRUCTIONS:

THIS PROGRAM SAVES & RESTORES  
THE TWO DISK FILES "ABBREVIATED CITATION" &  
"DESCRIPTOR-REST OF RECORD". TO PERFORM THE  
SAVE, I.E., DISK TO TAPE, TYPE "DISKTape" WHEN  
REQUESTED. TO PERFORM THE RESTORE, I.E.,  
TAPE BACK TO DISK, TYPE "TAPEDISK" WHEN  
REQUESTED.

SMUD FORM 2006 (Test)  
(Aug 68)



HALTS:  
NO.

CAUSE/CORRECTIVE ACTION

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OPERATOR COMMENTS:

# 3150 OPERATING INSTRUCTIONS

MAX.TIME 15 SEQUENCE NO. \_\_\_\_\_

RUN ID I12063000 RUN NAME I12063000 & SORTS

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MEOC/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
OUT:						

## CARDS:

IN: REEL (12063000) DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

DISK: 12063000 (12063000)

PACK NO. 12063000, 12063000, \_\_\_\_\_, \_\_\_\_\_

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PARTS \_\_\_\_\_ CARRIAGE TAPE \_\_\_\_\_

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

SEE APPENDIX C, page C-5. FOR THE FORMATS FOR "AND", "OR", "BUT NOT", & "NOR" CARDS. AT LEAST ONE "AND" CARD OR ONE "OR" MUST BE INPUT TO EACH RUN. A MAXIMUM OF 12 CARDS, 1 "AND", 5 "OR", 1 "BUT NOT", & 5 "NOR", IS PERMITTED EACH RUN. THE TWO OUTPUT FILES MUST BE SORTED USING THE APPROPRIATE SORTS PRIOR TO INPUT INTO I12063000.

SMUFD FORM 2006 (Test)  
(Aug 68)

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION


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OPERATOR COMMENTS:

# 3150 OPERATING INSTRUCTIONS

MAX.TIME \_\_\_\_\_ SEQUENCE NO. \_\_\_\_\_

RUN ID IR09 RUN NAME IRSERCH2

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MISC/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
		01	CONFIDENT	1	OUT	SAVE
OUT:						

## CARDS:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

DISK: \_\_\_\_\_  
PACK NO. \_\_\_\_\_

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ CARDS \_\_\_\_\_ CARriage TAPE STD.

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 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622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000. 1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028. 1029. 1030. 1031. 1032. 1033. 1034. 1035. 1036. 1037. 1038. 1039. 1040. 1041. 1042. 1043. 1044. 1045. 1046. 1047. 1048. 1049. 1050. 1051. 1052. 1053. 1054. 1055. 1056. 1057. 1058. 1059. 1060. 1061. 1062. 1063. 1064. 1065. 1066. 1067. 1068. 1069. 1070. 1071. 1072. 1073. 1074. 1075. 1076. 1077. 1078. 1079. 1080. 1081. 1082. 1083. 1084. 1085. 1086. 1087. 1088. 1089. 1090. 1091. 1092. 1093. 1094. 1095. 1096. 1097. 1098. 1099. 1100. 1101. 1102. 1103. 1104. 1105. 1106. 1107. 1108. 1109. 1110. 1111. 1112. 1113. 1114. 1115. 1116. 1117. 1118. 1119. 1120. 1121. 1122. 1123. 1124. 1125. 1126. 1127. 1128. 1129. 1130. 1131. 1132. 1133. 1134. 1135. 1136. 1137. 1138. 1139. 1140. 1141. 1142. 1143. 1144. 1145. 1146. 1147. 1148. 1149. 1150. 1151. 1152. 1153. 1154. 1155. 1156. 1157. 1158. 1159. 1160. 1161. 1162. 1163. 1164. 1165. 1166. 1167. 1168. 1169. 1170. 1171. 1172. 1173. 1174. 1175. 1176. 1177. 1178. 1179. 1180. 1181. 1182. 1183. 1184. 1185. 1186. 1187. 1188. 1189. 1190. 1191. 1192. 1193. 1194. 1195. 1196. 1197. 1198. 1199. 1200. 1201. 1202. 1203. 1204. 1205. 1206. 1207. 1208. 1209. 1210. 1211. 1212. 1213. 1214. 1215. 1216. 1217. 1218. 1219. 1220. 1221. 1222. 1223. 1224. 1225. 1226. 1227. 1228. 1229. 1230. 1231. 1232. 1233. 1234. 1235. 1236. 1237. 1238. 1239. 1240. 1241. 1242. 1243. 1244. 1245. 1246. 1247. 1248. 1249. 1250. 1251. 1252. 1253. 1254. 1255. 1256. 1257. 1258. 1259. 1260. 1261. 1262. 1263. 1264. 1265. 1266. 1267. 1268. 1269. 1270. 1271. 1272. 1273. 1274. 1275. 1276. 1277. 1278. 1279. 1280. 1281. 1282. 1283. 1284. 1285. 1286. 1287. 1288. 1289. 1290. 1291. 1292. 1293. 1294. 1295. 1296. 1297. 1298. 1299. 1300. 1301. 1302. 1303. 1304. 1305. 1306. 1307. 1308. 1309. 1310. 1311. 1312. 1313. 1314. 1315. 1316. 1317. 1318. 1319. 1320. 1321. 1322. 1323. 1324. 1325. 1326. 1327. 1328. 1329. 1330. 1331. 1332. 1333. 1334. 1335. 1336. 1337. 1338. 1339. 1340. 1341. 1342. 1343. 1344. 1345. 1346. 1347. 1348. 1349. 1350. 1351. 1352. 1353. 1354. 1355. 1356. 1357. 1358. 1359. 1360. 1361. 1362. 1363. 1364. 1365. 1366. 1367. 1368. 1369. 1370. 1371. 1372. 1373. 1374. 1375. 1376. 1377. 1378. 1379. 1380. 1381. 1382. 1383. 1384. 1385. 1386. 1387. 1388. 1389. 1390. 1391. 1392. 1393. 1394. 1395. 1396. 1397. 1398. 1399. 1400. 1401. 1402. 1403. 1404. 1405. 1406. 1407. 1408. 1409. 1410. 1411. 1412. 1413. 1414. 1415. 1416. 1417. 1418. 1419. 1420. 1421. 1422. 1423. 1424. 1425. 1426. 1427. 1428. 1429. 1430. 1431. 1432. 1433. 1434. 1435. 1436. 1437. 1438. 1439. 1440. 1441. 1442. 1443. 1444. 1445. 1446. 1447. 1448. 1449. 1450. 1451. 1452. 1453. 1454. 1455. 1456. 1457. 1458. 1459. 1460. 1461. 1462. 1463. 1464. 1465. 1466. 1467. 1468. 1469. 1470. 1471. 1472. 1473. 1474. 1475. 1476. 1477. 1478. 1479. 1480. 1481. 1482. 1483. 1484. 1485. 1486. 1487. 1488. 1489. 1490. 1491. 1492. 1493. 1494. 1495. 1496. 1497. 1498. 1499. 1500. 1501. 1502. 1503. 1504. 1505. 1506. 1507. 1508. 1509. 1510. 1511. 1512. 1513. 1514. 1515. 1516. 1517. 1518. 1519. 1520. 1521. 1522. 1523. 1524. 1525. 1526. 1527. 1528. 1529. 1530. 1531. 1532. 1533. 1534. 1535. 1536. 1537. 1538. 1539. 1540. 1541. 1542. 1543. 1544. 1545. 1546. 1547. 1548. 1549. 1550. 1551. 1552. 1553. 1554. 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571. 1572. 1573. 1574. 1575. 1576. 1577. 1578. 1579. 1580. 1581. 1582. 1583. 1584. 1585. 1586. 1587. 1588. 1589. 1590. 1591. 1592. 1593. 1594. 1595. 1596. 1597. 1598. 1599. 1600. 1601. 1602. 1603. 1604. 1605. 1606. 1607. 1608. 1609. 1610. 1611. 1612. 1613. 1614. 1615. 1616. 1617. 1618. 1619. 1620. 1621. 1622. 1623. 1624. 1625. 1626. 1627. 1628. 1629. 1630. 1631. 1632. 1633. 1634. 1635. 1636. 1637. 1638. 1639. 1640. 1641. 1642. 1643. 1644. 1645. 1646. 1647. 1648. 1649. 1650. 1651. 1652. 1653. 1654. 1655. 1656. 1657. 1658. 1659. 1660. 1661. 1662. 1663. 1664. 1665. 1666. 1667. 1668. 1669. 1670. 1671. 1672. 1673. 1674. 1675. 1676. 1677. 1678. 1679. 1680. 1681. 1682. 1683. 1684. 1685. 1686. 1687. 1688. 1689. 1690. 1691. 1692. 1693. 1694. 1695. 1696. 1697. 1698. 1699. 1700. 1701. 1702. 1703. 1704. 1705. 1706. 1707. 1708. 1709. 1710. 1711. 1712. 1713. 1714. 1715. 1716. 1717. 1718. 1719. 1720. 1721. 1722. 1723. 1724. 1725. 1726. 1727. 1728. 1729. 1730. 1731. 1732. 1733. 1734. 1735. 1736. 1737. 1738. 1739. 1740. 1741. 1742. 1743. 1744. 1745. 1746. 1747. 1748. 1749. 1750. 1751. 1752. 1753. 1754. 1755. 1756. 1757. 1758. 1759. 1760. 1761. 1762. 1763. 1764. 1765. 1766. 1767. 1768. 1769. 1770. 1771. 1772. 1773. 1774. 1775. 1776. 1777. 1778. 1779. 1780. 1781. 1782. 1783. 1784. 1785. 1786. 1787. 1788. 1789. 1790. 1791. 1792. 1793. 1794. 1795. 1796. 1797. 1798. 1799. 1800. 1801. 1802. 1803. 1804. 1805. 1806. 1807. 1808. 1809. 1810. 1811. 1812. 1813. 1814. 1815. 1816. 1817. 1818. 1819. 1820. 1821. 1822. 1823. 1824. 1825. 1826. 1827. 1828. 1829. 1830. 1831. 1832. 1833. 1834. 1835. 1836. 1837. 1838. 1839. 1840. 1841. 1842. 1843. 1844. 1845. 1846. 1847. 1848. 1849. 1850. 1851. 1852. 1853. 1854. 1855. 1856. 1857. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1865. 1866. 1867. 1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION

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OPERATOR COMMENTS:

SEARCHED: 12/10/68  
(CONT)

TO PERFORM (1) THE OUTPUT FROM JSEARCH MUST HAVE BEEN SENT PRIOR TO INPUT TO THIS PROGRAM. THE SAME SEARCH CRITERIA CARDS SUBMITTED IN JSEARCH MUST BE RESUBMITTED WITH THIS PROGRAM PRECEDED BY A "NAME" CARD (SEE APPENDIX C, PAGE C-4). TO PERFORM (2) REQUIRES NO PREVIOUS RUN OF JSEARCH. THE TWO CONTROL CARDS INPUT ARE "SEARCH CARD" TO INDICATE TYPE OF LISTING DESIRED, & "SEARCH CARD 2" TO INDICATE TYPE OF SEARCH & GIVE THE SEARCH PARAMETERS. (SEE APPENDIX C, PAGES C-6, C-7). TO PERFORM (3) ALSO REQUIRES NO PREVIOUS RUN OF JSEARCH. THE SINGLE CONTROL CARD IS SHOWN IN APPENDIX C, PAGE C-9.

## 3150 OPERATING INSTRUCTIONS

MAX. TIME 20

SEQUENCE NO. \_\_\_\_\_

RUN ID IR10 RUN NAME ACCESSION NUMBERS BY DISPOSITIONLISTING

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MEO/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

## MAG. TAPE:

IN: UNIT LUN LABEL REEL RING DISPOSITION

OUT:

## CARDS:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

DISK: THE SEARCH  
PACK NO. 715422

## PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PAPER \_\_\_\_\_ CARRIAGE TAPE STD

## PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

## SPECIAL INSTRUCTIONS:

ONLY THE SEARCH FILE & THE  
THRESHOLD FILE ARE NEEDED FOR THIS RUN.  
NO CARDS ARE INPUT. NO SORT IS NECESSARY.

HALTS:  
NO.

CAUSE/CORRECTIVE ACTION

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OPERATOR COMMENTS:

# 3150 OPERATING INSTRUCTIONS

MAX. TIME 15 MINUTES

SEQUENCE NO. \_\_\_\_\_

RUN ID IR11, SORT, & IR12 RUN NAME SPECIAL LISTINGS 1) FORACC  
2) SORTS  
3) ACCLIST

REQUESTER \_\_\_\_\_ ATTEND \_\_\_\_\_ AUTH. \_\_\_\_\_

COST CENTER \_\_\_\_\_ WORK CODE \_\_\_\_\_ STEP \_\_\_\_\_

FORE/BACK \_\_\_\_\_ MSOS/OTHER \_\_\_\_\_

JUMP SWITCH: 1. \_\_\_\_\_, 2. \_\_\_\_\_, 3. \_\_\_\_\_, 4. \_\_\_\_\_, 5. \_\_\_\_\_

MAG. TAPE:

| IN:  | UNIT | LUN | LABEL | REEL | RING | DISPOSITION |
|------|------|-----|-------|------|------|-------------|
|      |      |     |       |      |      |             |
|      |      |     |       |      |      |             |
| OUT: |      |     |       |      |      |             |
|      |      |     |       |      |      |             |
|      |      |     |       |      |      |             |

CARDS:

IN: LABEL SPECIAL LISTINGS DISPOSITION \_\_\_\_\_

OUT: LABEL OPTION CARD DISPOSITION \_\_\_\_\_

DISK: APPROPRIATE

PACK NO. OPTIONAL FILE \_\_\_\_\_

PRINTER:

LABEL \_\_\_\_\_ FORM NO. \_\_\_\_\_ PARTS \_\_\_\_\_ CARRIAGE TAPE STO

PAPER TAPE:

IN: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

OUT: LABEL \_\_\_\_\_ DISPOSITION \_\_\_\_\_

SPECIAL INSTRUCTIONS:

SEE APPENDIX C, PAGE C-8 FOR CARD FORMAT. EACH LIST REQUIRES A SEPARATE RUN OF "FORACC", SORT, & "ACCLIST". TO RUN OPTION01, USE "OPTION01" CARD IN "FORACC" & "ACCLIST"; ALSO USE CORRESPONDING SORT, I.E. SORT I. TO RUN OPTIONS 02 THRU 04 USE NECESSARY OPTION CARDS AND SORTS.

SMUFD FORM 2006 (Test)  
(Aug 68)

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| 13. ABSTRACT<br><p>The Fort Detrick Information Retrieval System is a system of computer programs written in COBOL for a CDC 3150 to store and retrieve information about the scientific and technical reports and documents of the Fort Detrick Technical Library. The documents and reports have been abstracted and their subject matter indexed using descriptors.</p> <p>This abstract, the subject matter descriptors, the document's title, the personal authors, the corporate authors, the document's series and contract numbers, any security classifications, and other pertinent information about each of the documents or reports make up the master record of the Information Retrieval System. The size of this record is up to 2300 characters, 980 of which are allotted to the abstract and 240 for up to 48 5-digit numeric descriptor codes to indicate the document's subject matter.</p> <p>As a means of accessing the information of the master file an additional file is used. It is called a search or inverted file and is used in a subject matter search of the master file. In addition to Boolean search capability, provision has been made for printing six book catalogs, e.g., personal author, corporate author, contracts, descriptors, etc. While the records of the master file are arranged by accession number of the individual document and the subject matter of that document is indicated by one or more descriptor codes, the inverted file records are arranged by descriptor.</p> <p>System and detailed flow charts are being prepared and will be issued as Vol II.</p> |  |  |                                |

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